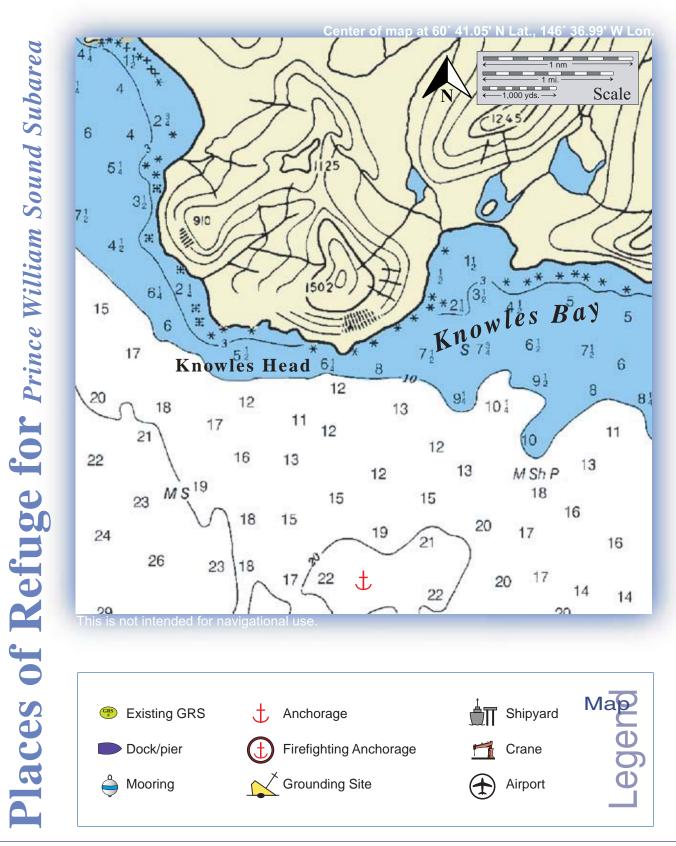


Knowles Head



Draft for workgroup review. 6/17/04

NUKA Research & Planning Group, LLC.

| Knowles Head Safety of Life | | | | | |
|-----------------------------|------------------------------|-----------------|----------------|--------------|--|
| | Contact | Location | Radio | Telephone | |
| Search and Rescue | State Troopers | Tatitlek/Valdez | | 907-835-4359 | |
| | | Cordova | | 907-424-7331 | |
| | Village Public Safety Office | Tatitlek | | 907-325-2248 | |
| | Volunteer Fire Dept | Tatitlek/Valdez | | 907-835-4560 | |
| | Cordova Police/Fire | Cordova | | 907-424-6100 | |
| Medical/Hospital | Tatitlek Health Clinic | Tatitlek | | 907-325-2235 | |
| | Cordova Community Hospital | Cordova | | 907-424-8000 | |
| | Valdez Community Hospital | Valdez | | 907-835-2249 | |
| Evacuation | USCG | Valdez-MSO | VHF Ch 16, 22a | 907-835-7210 | |
| Law Enforcement | State Troopers | Tatitlek/Valdez | | 907-835-4359 | |
| | | Cordova | | 907-424-7331 | |
| _ | Cordova Police/Fire | Cordova | | 907-424-6100 | |
| Dangerous Cargo | Port Authority | Valdez | | 907-835-4981 | |
| | Port Authority | Cordova | | 907-424-6400 | |
| Public Notification | KCHU radio | Valdez | | 907-835-4665 | |
| | KVAK radio | Valdez | | 907-835-5825 | |
| | Anchorage Daily News | Anchorage | | 907-257-4200 | |
| | Cordova Times | Cordova | | 907-424-7181 | |

| Knowles Head Services and Contacts | | | | |
|--|--|--|--|--|
| | Description | | | |
| Response | | | | |
| Oil Spill Response Organizations | Alyeska/SERVS: 907-835-6620; Alaska Chadux Corp.: Anchorage, 278-3365 | | | |
| Tugs/Tow Boats | Alyeska Service Co. (SERVS): Valdez. 835-6620; Wel-Aska Corp.: Valdez, 835-2424 | | | |
| Salvors | Crowley: 835-8807; Titan (Florida): 954-929-5200 | | | |
| Firefighting | Valdez Fire Dept.: 911 available, 835-4500 | | | |
| Lightering/Fulid Transfers | USN SUPSALV: Anchorage, 384-2968; Alyeska/SERVS: 907-835-6620 | | | |
| Command Posts | Initially the SERVS facility: Valdez, 835-6620. Auxiliary posts to be determined depending on spill size. Potential posts include Valdez Civic Center, MSO Valdez, ADEC Office and Warehouse, Schools, Community College | | | |
| Logistical | | | | |
| Docks/Piers | Valdez Container Terminal, Valdez City Dock, Valdez Small Boat Harbor; Cordova docks | | | |
| Shipyards | Seward dry dock | | | |
| Cranes | Valdez Small Boat Harbor, Valdez Container Dock; Cordova Ferry Dock | | | |
| Airports | Valdez Airport: 6,500 ft. asphalt; Cordova Airport: 7,500 ft. asphalt | | | |
| Aircraft/Helicopter Charter | Alyeska (SERVS): Valdez, 835-6620; ERA Aviation: Valdez, 835-2595: Alaska Airlines: Anchorage, 243-3322; Civil Air Patrol: Valdez, 835-5007 | | | |
| Crew/Freight Boats | Stan Stephens Tours; need to determine others | | | |
| Reception Facilities for Harmful and Dangerous Cargoes | Alyeska Pipeline Terminal | | | |
| Divers | R&R Diving Services: Valdez, 835-4375; | | | |
| Welders | ? | | | |
| Staging Areas | Airport, AKNG Armory, ADEC Warehouse, Harbor, Schools | | | |
| Communications | Marine VHF, single side band radio, cellular phone (?), satellite radio. | | | |
| Lodging/Shelter | None on shore. Many commercial lodging facilities are available in Valdez, but in summer may be booked to capacity. Alyeska maintains two mancamps, but alternatives such as RVs, school gyms, Alaska National Guard Armories, etc. may be needed. | | | |
| Food | Food will have to be sent to the scene by marine vessel. | | | |
| Other | | | | |
| Marine Pilots | Southwest Pilots Assn.: Valdez, 835-2134 | | | |
| US Coast Guard MSO | Valdez: 835-7205 | | | |

| Knowles Head Particulars | | | | |
|----------------------------|--|--|--|--|
| | Description | | | |
| Navigational Approach | Approach open from the S., E., W. utilizing the Valdez Vessel Traffic System. | | | |
| Minimum Water Depths | 13 Fathoms | | | |
| Maximum Water Depths | 36 Fathoms | | | |
| Maximum Vessel Draft | 84 ft. | | | |
| Maneuvering/Swing Room | Minimum 1.5 nm | | | |
| Docks/Piers | None at Knowles Head. Nearest-Tatitlik Ferry Dock-15nm. | | | |
| Moorings | None at Knowles Head. Nearest SERVS Buoy Port Etches-27nm. Seasonally available. | | | |
| Anchorages | Identified anchorage area around 60 38.80N 146 35.32W | | | |
| Firefighting Anchorages | Knowles Head, Sheep Bay | | | |
| Grounding Sites | None at Knowles Head. Nearest Red Head- 5nm | | | |
| Bottom Type | Mud | | | |
| Prevailing Winds | NE (Oct-April), SW (May-Sept.) | | | |
| Currents | Not a factor | | | |
| Tides | Mean High Water- 11.0, Mean Low Tide- 1.5 | | | |
| Sea Conditions | Storms can produce large seas > 15 ft swells. | | | |
| Shelter from Severe Storms | No | | | |
| Fog | ??? | | | |
| Ice | Not a factor | | | |

| Knowles Head Site Considerations | | | | |
|--------------------------------------|--|--|--|--|
| | Description | | | |
| Human Factors | | | | |
| Communities – distances/population | No communities exist in the immediate vicinity of Knowles Head. Valdez is located to the north 33 miles by air and 43 miles by sea. Tatitlek, also to the north, is 12 miles away by air and 14 miles away by sea. Cordova, located to the southeast is 33 miles away by air and 43 miles away by sea. | | | |
| Cultural Resources | Needs to be determined. | | | |
| Historic Property | Needs to be determined. | | | |
| Environmental Factors | | | | |
| Wildlife | Harbor seal, sea otter, waterfowl, salmon | | | |
| Threatened & Endangered Species | None | | | |
| Environmentally Sensitive Areas/GRS | Knowles Creek, Knowles Bay, Gull Island | | | |
| Economic Factors | | | | |
| Fisheries | No commercial fishing occurs around Knowles Head. | | | |
| Mariculture | No hatcheries or aquaculture facilies operate on Knowles Head. | | | |
| Tourism/Recreation | None | | | |
| Public Facilities/Parks | None | | | |
| Private Facilities | None | | | |
| Response Factors | | | | |
| Ability to Boom Vessel | It may be difficult to boom a vessel at Knowles Head due to sea state. | | | |
| Geographic Response Strategies | Hell's Hole PWS-NE-09 and Olsen Bay PWS-NE-10 | | | |
| Closest Alternative Places of Refuge | Two Moon Bay, Jack Bay, Port Valdez | | | |

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